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## Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

## **Listing of Claims**

1. (Currently Amended) A current drive circuit which supplies a signal current to a node of a driven circuit through a signal line, semiconductor device comprising:

a driven circuit comprising a first transistor;

a signal line electrically connected to the first transistor through a node;

a first precharge circuit electrically connected to the signal line;

wherein:

a precharge means for supplying a precharge voltage is supplied to the node through the signal line is provided prior to supplying a signal current to the driven circuit; and

the precharge means has a supply means for supplying the precharge voltage to the node and the signal line prior to supplying the signal current.

2. (Currently Amended) The <del>current drive circuit</del> <u>semiconductor device</u> according to claim 1,

wherein the <u>first</u> precharge <u>means circuit</u> <u>comprises a setting means for setting sets</u> the precharge voltage to a potential equal to <u>or according to</u> a potential of the node in a stationary state when the signal current is supplied to the driven circuit.

3. (Currently Amended) The <del>current drive circuit</del> <u>semiconductor device</u> according to claim 1,

wherein the precharge means comprises a plural setting means for setting one of a plurality of voltages is selected as the precharge voltages voltage; and

a selection supply means for selectively supplying the precharge voltage to the node and the signal line according to a magnitude of the signal current.

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## 4-5. (Cancelled)

6. (Currently Amended) The <del>current drive circuit</del> <u>semiconductor device</u> according to claim [[4]] 1,

wherein

the driven circuit comprises a first driving element and the <u>first</u> precharge circuit comprises a second <u>driving element transistor</u>; and

the first and the second driving elements are the same in size or in size according to it.

7. (Currently Amended) The eurrent drive circuit semiconductor device according to claim [[4]] 1, further comprising:

a means for supplying the precharge voltage to the node and the signal line through an impedance transformation amplifier.

8. (Currently Amended) The <del>current drive circuit</del> <u>semiconductor device</u> according to claim [[4]] 3, <u>further</u> comprising [[:]]

a plural second setting means precharge circuit comprising a third transistor for setting a plurality of the precharge voltages; and

a selection supply means for selectively supplying the precharge voltage to the node and the signal line according to a magnitude of the signal current.

9. (Currently Amended) The <del>current drive circuit</del> <u>semiconductor device</u> according to claim 1, <del>comprising:</del>

a means for setting wherein a precharge period  $T_b$  for supplying the precharge voltage to the node and the signal line is set so as to satisfy

$$T_b = R_L \times C_L$$

based on a wiring resistance R<sub>L</sub> and a parasitic capacitance C<sub>L</sub> of the signal line.

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10. (Currently Amended) The current drive circuit according to claim 9, emprising: a means for wherein setting as

$$T_a = T_b$$

in [[the]]  $\underline{a}$  case where a supply period  $T_a$  of the signal current to the driven circuit satisfies

 $T_a < T_b$ .

11. (Currently Amended) A display semiconductor device comprising: according to claim 1, wherein:

an image circuit to which an image data is provided as a current through a current line; and

the driven circuit is included in a pixel circuit;

a current drive circuit for supplying the image data to the current line as a signal current, wherein the current drive circuit comprising:

a source driver current source for supplying a signal current according to the image data from a node to the current line;

[[a]] the precharge circuit for supplying a precharge voltage to the node and the current line is included in a source driver circuit; and

a supply means for supplying the precharge voltage to the node and the current line prior to supplying the signal current

a power supply line is connected to the pixel circuit.

12-15. (Cancelled)

16. (Currently Amended) [[A]] <u>The display semiconductor</u> device comprising: according to claim 6, wherein

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a pixel circuit comprising a signal line for transmitting image data as a signal current and a first driving element for supplying a driving current in proportion to the signal current from a power supply line; and

a source driver circuit comprising an image signal input current source for supplying the signal current to the signal line,

wherein a precharge circuit for precharging the signal line prior to supplying the signal current to the signal line is integrated in the source driver circuit;

the precharge circuit is selectively connected between the image signal input current source and the power supply line and comprises a second driving element for outputting a precharge voltage according to the signal current; and

the first and the second driving elements transistors are the same in size or in size according to it.

## 17. (Cancelled)

- 18. (Currently Amended) A current drive circuit semiconductor device comprising:
- a driven circuit comprising a first transistor;
- a precharge circuit;
- a means first switch for controlling [[a]] an electrical connection between [[a]] the driven circuit and [[a]] the precharge circuit; and
- a means second switch for controlling [[a]] an electrical connection between [[a]] the driven circuit and [[a]] the current source circuit.
- 19. (Currently Amended) [[A]] <u>The current drive circuit semiconductor device comprising: according to claim 18, further comprising</u>
  - a driven circuit;
  - a precharge circuit;
  - a current source circuit for inputting a signal current to the driven circuit;

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a means for controlling a connection between the driven circuit and the precharge circuit; a means for controlling a connection between the driven circuit and the current source circuit; and

a means for outputting a voltage by amplifying a signal outputted from the precharge circuit.

20. (Currently Amended) A current drive circuit semiconductor device comprising:

a driven circuit comprising a first transistor;

a precharge circuit plural precharge circuits;

[[a]] <u>plural</u> current source <u>eireuit</u> <u>circuits</u> for inputting a signal current to the driven circuit;

a means <u>first switch</u> for controlling [[a]] <u>an electrical</u> connection between the driven circuit and the <u>plural</u> precharge <u>circuits</u>; <u>and</u>

a means second switch for controlling [[a]] an electrical connection between the driven circuit and the plural current source circuit circuits, wherein

the precharge circuit outputs a precharge voltage selected from a plurality of voltage values.

21. (Currently Amended) [[A]] <u>The current drive circuit semiconductor device comprising</u> according to claim 20 [[:]], further comprising

a driven circuit;

a precharge circuit;

a current source circuit for inputting a signal current to the driven circuit;

a means for controlling a connection between the driven circuit and the precharge circuit;

a means for controlling a connection between the driven circuit and the current source

circuit; and a means plural amplifier circuits for amplifying signal currents outputted from the

plural precharge eircuit circuits,

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wherein the precharge circuit outputs a precharge voltage selected from a plurality of voltage values.

22. (Currently Amended) The <del>current drive circuit</del> <u>semiconductor device</u> according to claim 18,

wherein the driven circuit comprises a first transistor and the precharge circuit comprises a second transistor.

23-25. (Cancelled)

26. (Currently Amended) The <del>current drive circuit</del> <u>semiconductor device</u> according to claim [[18]] <u>19</u>,

wherein the driven circuit is disposed in a pixel of a display device; and the precharge circuit and the current source circuit are disposed in a source driver circuit of the display device.

27. (Currently Amended) The current drive circuit semiconductor device according to claim [[18]] 19,

wherein:

the driven circuit is disposed in a digital voltage/analog current conversion circuit; and the precharge circuit and the current source circuit are disposed in a reference current source circuit.

28. (Currently Amended) The <del>current drive circuit</del> <u>semiconductor device</u> according <u>to</u> claim [[18]] <u>22</u>,

wherein the precharge circuit comprises a transistor; and wherein a gate and a drain of the second transistor are connected to each other.

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29-58. (Cancelled)

59. (New) The semiconductor device according to claim 18, further comprising an amplifier circuit for amplifying a signal current outputted from the precharge circuit.

- 60. (New) The semiconductor device according to claim 20, wherein at least one of the plural precharge circuits comprises a second transistor.
  - 61. (New) The semiconductor device according to claim 20,

wherein:

the driven circuit is disposed in a pixel; and

the plural precharge circuits and the plural current source circuits are disposed in a source driver circuit.

62. (New) The semiconductor device according claim 20,

wherein the driven circuit is disposed in a digital voltage/analog current conversion circuit; and

the plural precharge circuits and the plural current source circuit are disposed in a reference current source circuit.

- 63. (New) The semiconductor device according claim 60, wherein a gate and a drain of the second transistor are connected to each other.
- 64. (New) The semiconductor device according to claim 7, wherein the impedance transformation amplifier is a source follower circuit.
- 65. (New) The semiconductor device according to claim 21, wherein at least one of the plural amplifier circuits is a source follower circuit.

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66. (New) The semiconductor device according to claim 59, wherein the amplifier circuit is a source follower circuit.

- 67. (New) The semiconductor device according to claim 22, wherein the second transistor is connected to the first switch through a wiring.
- 68. (New) The semiconductor device according to claim 60, wherein the second transistor is connected to the first switch through a wiring.
- 69. (New) The semiconductor device according to claim 22, further comprising a wiring connected to the second transistor and the first switch.
- 70. (New) The semiconductor device according to claim 60, further comprising a wiring connected to the second transistor and the first switch.